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On p.31, please delete line 10 ("....PPP ... NO:12)") in its entirety.

On p.36, lines 3-4, please change "used were ... CAT-3)" to -were used-.

On p.36, lines 10-12, please change "the primers ... TG-3)" to -primers-.

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REMARKS

The specification has been amended solely to address the sequence listing formalities raised in the subject Notice and letter mailed Dec 11, 2000. The amendment to p.5, replaces the N-terminal residues recited on line 2 with those of SEQ ID NO:6 as referenced. The canceled N-terminal sequences which diverged from the disclosed C. elegans Robo sequence were inadvertently introduced by the undersigned. The sequence recitations of Table 4 and canceled Table 5 on p.11-12 were unnecessary to the invention and their retention would have required a new sequence listing. The text of Table 4 other than the sequence recitations is retained because it is self-explanatory without the sequence recitations and because its cancellation would have required renumbering all subsequent tables. The amendment on p.15 simply provides the correct position in the sequence listing. The amendments to p.30-31 remove consensus sequences which are inherent in the alignments and their retention would have required amendment of the sequence listing. Similarly canceled are the primer sequences of p.36, as these are also unnecessary to the invention and their retention would have required amendment of the sequence listing. This amendment introduces no new matter.

Note that the sequence listing of this substitute specification is identical to that as filed. Accordingly, in lieu of sending a second, identical CRF, the Examiner is requested to use the CRF of record in this application.

The Examiner is invited to call the undersigned if she would like to amend the claims to clarify the foregoing or seeks further clarification of the claim language.

Applicants hereby petition for any necessary extension of time pursuant to 37 CFR 1.136(a). The Commissioner is hereby authorized to charge any fees or credit any overcharges relating to this communication to our Deposit Account No. 19-0750 (order no. B98-006-2).

Respectfully submitted,
SCIENCE & TECHNOLOGY LAW GROUP



Richard Aron Osman, Ph.D., Reg. No. 36,627
Tel: (650) 343-4341; Fax: (650)343-4342

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):



1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
7. Other: See attached letter. All sequences must comply

Applicant Must Provide:

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

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For CRF Submission Help, call (703) 308-4212

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